

Worksheet 11-6 Day 1 Simplify the expressions below. Show your work.

1. $\sqrt{12}$

2. $\sqrt{18}$

3. $\sqrt{20}$

4. $\sqrt{75}$

5. $\sqrt{54}$

6. $\sqrt{98}$

7. $\sqrt{128}$

8. $\sqrt{162}$

9. $\sqrt{200}$

10. $\sqrt{44}$

11. $\sqrt{32}$

12. $\sqrt{175}$

13. $\sqrt{8}$

14. $\sqrt{45}$

15. $\sqrt{50}$

16. $\sqrt{12}$

17. $\sqrt{98}$

18. $\sqrt{48}$

19. $\sqrt{63}$

20. $\sqrt{125}$

Worksheet 11-6 Day 1 Simplify the expressions below. Show your work.

21. $\sqrt{40}$

22. $\sqrt{72}$

23. $\sqrt{63}$

24. $\sqrt{144}$

25. $\sqrt{200}$

26. $\sqrt{108}$

27. $\sqrt{243}$

28. $\sqrt{144}$

Worksheet 11-6 Day 2 Simplify the expressions below. Show your work.

1. $5\sqrt{18}$

2. $3\sqrt{28}$

3. $2\sqrt{1000}$

4. $\sqrt{1,000,000}$

5. $3\sqrt{128}$

6. $8\sqrt{27}$

7. $4\sqrt{80}$

8. $-3\sqrt{54}$

9. $-7\sqrt{40}$

10. $-8\sqrt{121}$

11. $2\sqrt{500}$

12. $-4\sqrt{24}$

13. $3\sqrt{175}$

14. $5\sqrt{108}$

15. $\sqrt{x^4}$

16. $\sqrt{x^6x^{10}}$

Worksheet 11-6 Day 2 Simplify the expressions below. Show your work.

17. $\sqrt{x^7}$

18. $\sqrt{a^{12}b^{14}}$

19. $\sqrt{9x^6}$

20. $\sqrt{16a^5}$

21. $\sqrt{c^{11}d^{13}}$

22. $\sqrt{50x^{11}}$

23. $\sqrt{63a^6b^{15}}$

24. $\sqrt{80x^9y^{17}}$

25. $\sqrt{32cd^{14}e^5}$

26. $\sqrt{225x^8y^2z}$

27. $\sqrt{27x^{11}y^{42}}$

28. $\sqrt{45b^{13}}$